



PATENT
Docket No. 312762002600

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Tami M. Procopio
Tami Procopio

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In the application of:

Mingxu XU and Qinghong HAN

Serial No.: 09/759,990

Filing Date: January 12, 2001

For: HIGH EXPRESSION AND PRODUCTION OF
HIGH SPECIFIC ACTIVITY RECOMBINANT
S-ADENOSYL HOMOCYSTEINASE (SAHH)
AND IMPROVED ASSAYS FOR S-
ADENOSYLMETHIONINE (SAM)

Examiner: To be Assigned

Group Art Unit: 1645

AMENDMENT

Box Missing Parts
Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

This is in response to the Notice of incomplete reply dated September 6, 2001.

Please enter the following Sequence Listing, amendments and remarks.

In the Sequence Listing:

Please insert the attached paper copy of the Sequence Listing as new pages 1-2 in the above-captioned application. A computer-readable copy (CFR copy) of the Sequence Listing accompanies this response.

Amendments

In the Specification:

Please replace the paragraph beginning at page 11, line 12, with the following rewritten paragraph:

-- The genomic sequence encoding SAHH in *T. vaginalis* (Bagnara *et al.*, 1996) was amplified by PCR using oligonucleotide primers containing engineered restriction enzyme sites for *Bam*HI and *Pst*I in the upstream (sense) and downstream (antisense) primers, respectively (restriction sites are underlined in both cases): upstream primer, 5'TTTTGGATCCGCTTGCAAATCACCTGCTGGTGC 3' (SEQ ID NO:2); downstream primer, 3' CTGCTATCGAGGGGGACGTCTTTT 5' (SEQ ID NO:3). The recombinant expression vector pQE-30 was transformed into the *Escherichia coli* host strain M15[pREP4] (Villarejo and Zabin, 1974) (QIAGEN).--

Please replace the paragraph beginning at page 15, line 18, with the following rewritten paragraph:

-- To construct the expression vector, the SAHH gene was modified by PCR. The 5' primer is CATCATCATCATCACGCTTGCAAATCACCTACTGG (SEQ ID NO:4)

6 x His•Tag

and the 3' primer is ATGCATGGATCCTTAATAACGGTAAGCATC (SEQ ID NO:5).--

REMARKS

The Specification has been amended to include sequence identifications numbers which were omitted at the time of filing.

Attached hereto is a marked-up version of the changes made to the specification by the current amendment. The attached page is captioned "**Version with markings to show changes made.**".

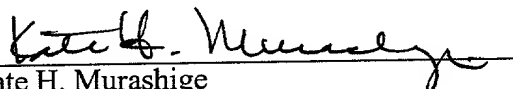
The undersigned hereby states that the computer readable form copy (CRF copy) of the Sequence Listing and the paper copy of the Sequence Listing, submitted in accordance with 37 C.F.R. § 1.825(a) and (b), respectively, are the same and contain no new matter. Accordingly, entry of the Sequence Listing into the above-captioned case is respectfully requested.

In the unlikely event that the transmittal letter is separated from this document and the Patent Office determines that an extension and/or other relief is required, applicant petitions for any required relief including extensions of time and authorizes the Assistant Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing docket no. 312762002600. However, the Assistant Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Respectfully submitted,

Dated: October 23, 2001

By:


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Registration No. 29,959

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the Specification:

On page 11, line 16, after "TTT-3" insert --(SEQ ID NO:2)--;

On page 11, line 17, after "TTT-5" insert --(SEQ ID NO:3)--;

On page 15, line 19, after "TGG" insert --(SEQ ID NO:4)--;

On page 15, line 21, after "ATC" insert --(SEQ ID NO:5)--.